

Claim Listing

Claims 1, and 6-10 are amended as indicated below. Claims 11-14 are withdrawn with this amendment.

1. (Currently Amended) A system for processing price data corresponding to a sequence of time for a selected interval, said system comprising:

a database means for storing said price data in system addressable format, wherein said price data is organized for processing into a non-linear relationship;

a data processor responsive to price data stored in said database and capable of generating said non-linear relationship having a smooth, ~~curvalinear~~ curvilinear characteristic for a range of data within said interval;

a pattern recognition processor for applying said smoothed non-linear relationship to discern the existence of one or more patterns of price-time data; and

generating a results output based on a recognition of said pattern, if any.

2. The system of claim 1 wherein real-time price data is inputted from commercial financial data vendors.

3. The system of claim 1 wherein said database means includes means for storing price data taken from end of day trading records.

4. The system of claim 1 wherein said database means includes means for storing trading volume and trade size data.

5. The system of claim 1 further comprising means for testing prediction characteristics, via convergence criteria and adjusting system parameters in response to said criteria.

6. (Currently Amended) A system for processing price data corresponding to a sequence of time for a selected interval, said system comprising:

a database means for storing said price data in system addressable format, wherein said price data is organized for processing into a non-linear relationship;

a data processor responsive to price data stored in said database and capable of generating said non-linear relationship having a smooth, curvilinear characteristic for a range of data within said interval;

a pattern recognition processor for applying said smoothed non-linear relationship to discern the existence of one or more patterns of price-time data and generating a results output based on a recognition of said pattern, if any; and

~~The system of claim 1 further comprising programming to detect one or more broadening tops and broadening bottoms.~~

7 (Currently Amended) ~~The system of claim 1 further comprising programming to detect head and shoulders pattern.~~ A system for processing price data corresponding to a sequence of time for a selected interval, said system comprising:

a database means for storing said price data in system addressable format, wherein said price data is organized for processing into a non-linear relationship;

a data processor responsive to price data stored in said database and capable of generating said non-linear relationship having a smooth, curvilinear characteristic for a range of data within said interval;

a pattern recognition processor for applying said smoothed non-linear relationship to discern the existence of one or more patterns of price-time data and generating a results output based on a recognition of said pattern, if any; and

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programming to detect one or more head and shoulders patterns.

8 (Currently Amended) ~~The system of claim 1 further comprising programming to detect triangle tops and triangle bottoms.~~ A system for processing price data corresponding to a sequence of time for a selected interval, said system comprising:

a database means for storing said price data in system addressable format, wherein said price data is organized for processing into a non-linear relationship;

a data processor responsive to price data stored in said database and capable of generating said non-linear relationship having a smooth, curvilinear characteristic for a range of data within said interval;

a pattern recognition processor for applying said smoothed non-linear relationship to discern the existence of one or more patterns of price-time data and generating a results output based on a recognition of said pattern, if any; and

programming to detect one or more triangle tops and triangle bottoms.

9 (Currently Amended) ~~The system of claim 1 further comprising programming to detect rectangle tops and rectangle bottoms.~~ A system for processing price data corresponding to a sequence of time for a selected interval, said system comprising:

a database means for storing said price data in system addressable format, wherein said price data is organized for processing into a non-linear relationship;

a data processor responsive to price data stored in said database and capable of generating said non-linear relationship having a smooth, curvilinear characteristic for a range of data within said interval;

a pattern recognition processor for applying said smoothed non-linear relationship to discern the existence of one or more patterns of price-time data and generating a results output based on a recognition of said pattern, if any; and

programming to detect one or more rectangle tops and rectangle bottoms.

10 (Currently Amended) ~~The system of claim 1 further comprising programming to detect double tops and double bottoms.~~ A system for processing price data corresponding to a sequence of time for a selected interval, said system comprising:

a database means for storing said price data in system addressable format, wherein said price data is organized for processing into a non-linear relationship;

a data processor responsive to price data stored in said database and capable of generating said non-linear relationship having a smooth, curvilinear characteristic for a range of data within said interval;

a pattern recognition processor for applying said smoothed non-linear relationship to discern the existence of one or more patterns of price-time data and generating a results output based on a recognition of said pattern, if any; and

programming to detect one or more double tops and double bottoms.

11. (Withdrawn) A data processing method for developing predictions on future price movements based on historical price data said method comprising the steps of:

- a) storing data relating to price at select time intervals;
- b) develop a non-linear relationship over discrete time intervals and establishing smooth, curvilinear characteristics for said price data at select intervals;
- c) apply pattern recognition techniques to said curvilinear characteristics to detect one or more patterns for said select intervals; and

d) generate a results output based on a recognition of one or more patterns.

12. (Withdrawn) The method of claim 11 wherein recognized patterns are selected from the group comprising: head and shoulders, broadening tops and bottoms, triangle tops and bottoms, rectangle tops and bottoms, and double tops and bottoms.

13. (Withdrawn) The method of claim 1 wherein a kernel regression is used in developing a non-linear relationship and establishing a smooth curvilinear characteristic.

14. (Withdrawn) The method of claim 1 wherein said relationship is controlled by select parameters that are adjustable based on convergence criteria.

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